CIVIL PRO
AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

To,

Date: 24-07-2021

ASSISTANT EXECUTIVE ENGINEER

VIDYARANYAPURA SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of "DRILLING OF BOREWELL PROVIDING AND INSTALLING PUMP MOTOR AND OTHER ACCESSORIES AND DEVELOPMENT OF PARKS AND PROVIDING CHILDREN PLAY AND GYM EQUIPMENTS AT NTI LAYOUT, GURUDHARSHAN LAYOUT IN WARD NO 09 (VIDYARANYAPURA)."

Ref: 1. Work Order No: BBMP/EE/BTP/WO/191/2020-21

2. Job code: 009-21-000006

We are herewith forwarding to Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.1,01,53,574.00/- (Rs. One Crore One Lakhs Fifty Three Thousand Five Hundred and Seventy Four Only).

Thanking you,

Yours faithfully,

For Civil Pro

CIVIL PRO BANGALORE

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

R. KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

QC ABSTRACT

NAME OF WORK: Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	4 set /31-50 cum	34.4	8	8
9	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-07-23-23** **Date: 27-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).
Agency	:	Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/191/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	25-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.53	_
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhat Bengaluru Mahanagara Palike

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-07-23-23** **Date: 25-03-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).
Agency	:	Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/191/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	25-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-07-23-23** **Date: 27-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).
Agency	:	Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/191/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-02-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7441	7759	51.7	48.3	30-70
4	10 mm	5152	12911	86.1	13.9	10-35
5	4.75 mm	1711	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-07-23-23** **Date: 27-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.38	_
5	Bulk Density(Compacted) (Kg/l)	1.42	_
6	Water Absorption(%)	0.26	_

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-07-23-23** **Date: 26-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).
Agency	:	Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/191/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-02-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-07-23-23** **Date: 26-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangalore Mahanagara Palike

CIVIL Pro Sig. Date BANGALORE

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-07-23-23** **Date: 26-02-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/191/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-02-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 24-02-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-07-23-23** **Date: 26-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-07-23-23** **Date: 02-03-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).
Agency	:	Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/191/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-02-21
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	26/02/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.48	1.116	4478	81.9	18.3	17.0	21.3
2	Cover Slab-2	75.48	100.52	1.122	4474	83.3	18.6	17.3	21.6
3	Cover Slab-3	75.49	100.51	1.118	4475	81.2	18.1	16.9	21.1

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Note:

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ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2021-07-23-23** **Date: 04-03-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).
Agency	:	Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/191/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-21
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	28/02/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig. Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2021-07-23-23** **Date: 01-03-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).
Agency	:	Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/191/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-21
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	25-02-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	203	202	16320	33.777	2069.6	2022.8	Not less than 1800Kg/m^3
2	403	200	202	16281	33.083	2031.9		
3	404	199	201	16160	31.783	1966.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2021-07-23-23** **Date: 01-03-21**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	203	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	199	203	
3	402	200	201	
4	401	201	201	
5	401	200	202	
6	400	200	199	
7	400	200	199	
8	404	201	200	
9	402	202	203	
10	400	202	201	
11	403	202	199	
12	404	199	200	
13	403	201	201	
14	402	201	199	
15	403	199	202	
16	400	200	199	
17	403	199	202	
18	401	202	203	
19	404	199	202	
20	400	200	200	
Average of 20	**402**	**201**	**201**	

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CIVIL PRO BANGALORE

Lab ID : **CP-2021-07-23-23** **Date: 01-03-21**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	203	81030	376.2	4.6	4.7
2	401	199	79863	377.7	4.7	
3	402	200	80443	374.3	4.7	
4	401	201	80473	378.8	4.7	
5	401	200	80435	373.0	4.6	
6	400	200	80012	379.3	4.7	
7	400	200	79830	380.5	4.8	
8	404	201	81254	372.8	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division
Bruhath Bengaluru Mahanagara Palike

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-23-23** **Date: 15/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/191/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/03/2021	15/03/2021	150.89 X 149.75 X 151.60	22596	**8.782**	279.1	12.4	12.2
2	PCC	M15	08/03/2021	15/03/2021	150.86 X 151.34 X 149.21	22831	**8.535**	279.2	12.2	
3	PCC	M15	08/03/2021	15/03/2021	149.96 X 149.19 X 151.14	22371	**8.569**	271.4	12.1	

* The results obtained are satisfactory as per standard requirements.

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Vidyaranyapura Sub-Division
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R.KARTHIK RECHAN
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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-23-23** **Date: 05/04/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/191/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/03/2021	05/04/2021	151.74 X 151.87 X 149.29	23044	**8.164**	408.7	17.7	17.6
2	PCC	M15	08/03/2021	05/04/2021	149.82 X 150.08 X 150.88	22485	**8.638**	393.6	17.5	
3	PCC	M15	08/03/2021	05/04/2021	150.26 X 151.88 X 149.31	22821	**8.669**	398.8	17.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-23-23** **Date: 15/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/191/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/03/2021	15/03/2021	149.01 X 150.18 X 149.52	22378	**8.782**	285.7	12.8	12.6
2	PCC	M15	08/03/2021	15/03/2021	151.48 X 151.74 X 150.17	22987	**8.535**	287.9	12.5	
3	PCC	M15	08/03/2021	15/03/2021	150.86 X 150.42 X 149.49	22692	**8.569**	286.2	12.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-23-23** **Date: 05/04/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/191/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/03/2021	05/04/2021	149.11 X 151.99 X 151.28	22664	**8.164**	407.8	18.0	17.7
2	PCC	M15	08/03/2021	05/04/2021	151.22 X 149.37 X 151.58	22587	**8.638**	389.1	17.2	
3	PCC	M15	08/03/2021	05/04/2021	150.47 X 151.83 X 150.01	22846	**8.669**	409.7	17.9	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-23-23** **Date: 15/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/191/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/03/2021	15/03/2021	150.70 X 151.77 X 149.08	22871	**8.782**	284.2	12.4	12.5
2	PCC	M15	08/03/2021	15/03/2021	149.45 X 151.09 X 150.02	22581	**8.535**	288.7	12 8	
3	PCC	M15	08/03/2021	15/03/2021	149.22 X 151.74 X 149.66	22642	**8.569**	280.1	12.4	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-23-23** **Date: 05/04/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/191/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/03/2021	05/04/2021	149.33 X 151.49 X 149.89	22622	**8.164**	400.0	17.7	17.7
2	PCC	M15	08/03/2021	05/04/2021	150.93 X 151.57 X 149.21	22876	**8.638**	397.6	17.4	
3	PCC	M15	08/03/2021	05/04/2021	151.03 X 149.15 X 149.60	22526	**8.669**	405.1	18.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-23-23** **Date: 15/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/191/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/03/2021	15/03/2021	149.16 X 150.44 X 150.33	22439	**8.782**	269.6	12.0	12.3
2	PCC	M15	08/03/2021	15/03/2021	151.81 X 149.38 X 151.02	22676	**8.535**	274.3	12.1	
3	PCC	M15	08/03/2021	15/03/2021	151.43 X 150.38 X 150.67	22772	**8.569**	293.6	12.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-23-23** **Date: 05/04/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).

Agency : Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/191/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/03/2021	05/04/2021	150.06 X 150.90 X 151.29	22644	**8.164**	392.6	17.3	17.2
2	PCC	M15	08/03/2021	05/04/2021	150.40 X 151.37 X 150.09	22765	**8.638**	391.7	17.2	
3	PCC	M15	08/03/2021	05/04/2021	149.37 X 150.04 X 149.32	22411	**8.669**	384.7	17.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

****End of Report****

CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP-2021-07-23-23** **Date: 06-03-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing and Installing Pump Motor and Other Accessories and Development of Parks and Providing Children Play and Gym Equipments at NTI Layout, Gurudharshan Layout in Ward No 09 (Vidyaranyapura).
Agency	:	Sri.K.B.Alankar, H.No:12, MSV Network Road, Naear Shoba Apartment, Amruthahalli, Sahakarnagara Post, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/191/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-21
Sample Type/ Size	:	Precast concrete blocks for paving
Reference to BIS codes	:	IS 15658:2006
Date of test	:	01-03-21

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	60.98	32.5	33.1
2	198.48	159.64	60.71	33.8	
3	199.54	159.54	60.45	32.5	
4	197.68	159.22	60.42	33.5	
5	198.11	159.87	60.41	32.8	
6	198.18	160.02	60.21	33.4	
7	198.45	158.99	60.18	33.2	
8	197.22	159.22	60.23	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	60.8	3.29	3.64
2	4.898	4.721	60.35	3.75	
3	4.988	4.802	60.52	3.87	

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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End of Report

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